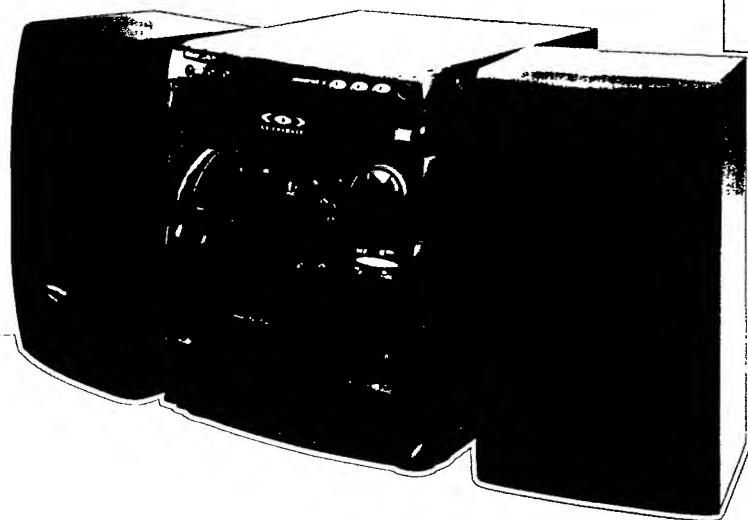


# PHILIPS

FW 315C Mini HiFi System。



Instructions for use  
Mode d'emploi  
Instrucciones de manejo  
Bedienungsanleitung  
Gebruiksaanwijzing  
Istruzioni per l'uso  
Brugsanvisning  
Bruksanvisning  
Käyttöohje  
Manual de utilização  
Οδηγίες χρήσεως



## PHILIPS

## Important notes for users in the U.K.

### Mains plug

This apparatus is fitted with an approved 13 Amp plug. To change a fuse in this type of plug proceed as follows:

- 1 Remove fuse cover and fuse.
- 2 Fix new fuse which should be a BS1362 5 Amp, A.S.T.A. or BSI approved type.
- 3 Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.

If the mains plug contains a fuse, this should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

**Note:** The severed plug must be disposed of to avoid a possible shock hazard should it be inserted into a 13 Amp socket elsewhere.

### How to connect a plug

The wires in the mains lead are coloured with the following code: blue = neutral (N), brown = live (L).

As these colours may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

- Connect the blue wire to the terminal marked N or coloured black.
- Connect the brown wire to the terminal marked L or coloured red.
- Do not connect either wire to the earth terminal in the plug, marked E (or  $\frac{1}{2}$ ) or coloured green (or green and yellow).

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the two wires.

### Copyright in the U.K.

Recording and playback of material may require consent. See Copyright Act 1956 and The Performer's Protection Acts 1958 to 1972.

## Italia Dichiarazione di conformita'

Si dichiara che l'apparecchio FW315C Philips risponde alle prescrizioni dell'art. 2, comma 1 del D.M. 28 Agosto 1995 n. 548.

Fatto a Eindhoven, il 28/3/1997

Philips Sound & Vision  
Philips, Glaslaan 2, SFF 10  
5616 JB Eindhoven, The Netherlands.

## Norge

Typeskilt finnes på apparatens underside.

**Observer:** Nettbryteren er sekundært innkopleet. Den innebygde nettdelen er derfor ikke frakopleet nettet så lenge apparatet er tilsluttet nettkontakten.

For å redusere faren for brann eller elektrisk støt, skal apparatet ikke utsettes for regn eller fuktighet.

**CLASS 1  
LASER PRODUCT**

English ..... 4

English

Français..... 19

Français

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Español

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## GENERAL INFORMATION

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## General Information

- The typeplate is located at the rear of the set.
  - Recording is permissible if copyright or other rights of third parties are not infringed.
- 1 All unnecessary packaging material has been omitted. We have tried to make the packaging easy to separate into three mono-materials:
    - cardboard (box)
    - expandable polystyrene (buffer)
    - polyethylene (bags, protective foam sheet).
 Please observe the local regulations regarding the disposal of these packaging materials.
  - 2 Your set consists of materials which can be recycled and reused if disassembled by a specialized company. Please follow local regulations on recycling your old set.
  - 3 Do not dispose of dead batteries with your household waste. Dispose of batteries according to local regulations.
  - 4 Note: Switching off the standby mode overnight (remove the AC power cord from the wall socket) will save energy.

## Accessories (Supplied)

- Remote control
- Batteries (2 x AA) for remote control
- AM loop antenna
- FM antenna wire
- AC power cord

## Safety Information

- Before operating the system, check that the operating voltage indicated on the typeplate (or the voltage indication beside the voltage selector) of your system is identical with the voltage of your local power supply. If not, please consult your dealer. The type plate is located at the rear of your system.
- When the system is switched on, do not move it around.
- Place the system on a solid base (e.g. a cabinet).
- Place the system in a location with adequate ventilation to prevent internal heat build-up in your system.
- Do not expose the system to excessive moisture, rain, sand or heat sources.
- Under no circumstances should you repair the unit yourself, as this will invalidate the warranty!
- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens of the CD unit inside the system. Should this occur, the CD player will not operate normally. Leave the power on for about one hour with no disc in the unit until normal playback is possible.
- Electrostatic discharge may cause unexpected problems. See whether these problems disappear if you unplug the AC power cord and plug it in again after a few seconds.
- To disconnect the system from the power supply completely, remove the AC power plug from the wall socket.

*This product complies with the radio interference requirements of the EU (European Union).*

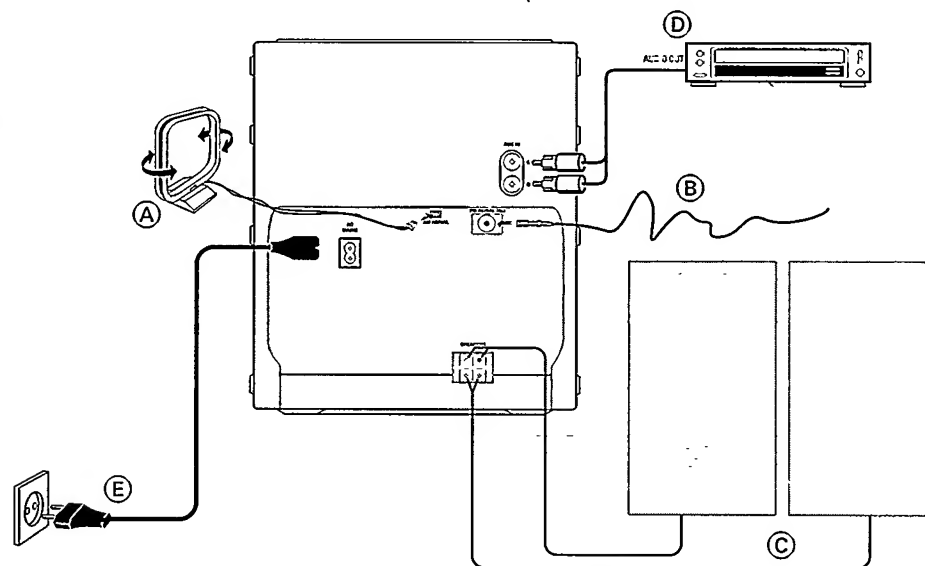
## Inserting the batteries into the remote control

- Insert the batteries (Type R6 or AA) into the remote control as shown inside the battery compartment.



- To avoid damage from possible battery leakage, remove dead batteries or batteries that will not be used for a long time. For replacement use type R6 or AA batteries.

## Rear Connection



### Ⓐ AM Antenna Connection

Connect the supplied loop antenna to the AM AERIAL terminal. Adjust the position of the AM loop antenna for the best reception.

### Ⓑ FM Wire Antenna Connection

Connect the supplied FM wire antenna to the FM 75  $\Omega$  terminal. Adjust the position of the FM antenna for the best reception.

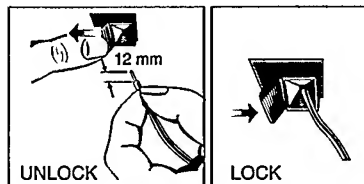
### Outdoor Antenna

For better FM stereo reception connect an outdoor FM antenna to the FM AERIAL 75  $\Omega$  terminal using a 75  $\Omega$  coaxial wire.

## PREPARATIONS

### © Speaker Connections

- Connect the right speaker to terminal **R**, with the red wire to **+** and the black wire to **-**.
- Connect the left speaker to terminal **L**, with the red wire to **+** and the black wire to **-**.
- Clip the stripped portion of the speaker wire as shown.



### ④ Connecting other equipment to your system

You can connect the TV, Laser Disc or VCR audio left and right output terminals to the AUX IN terminal at the rear of the system.

### ⑤ AC Power Supply

After all other connections have been made, connect the AC power cord to the set and to the wall outlet.

## REMOTE CONTROL

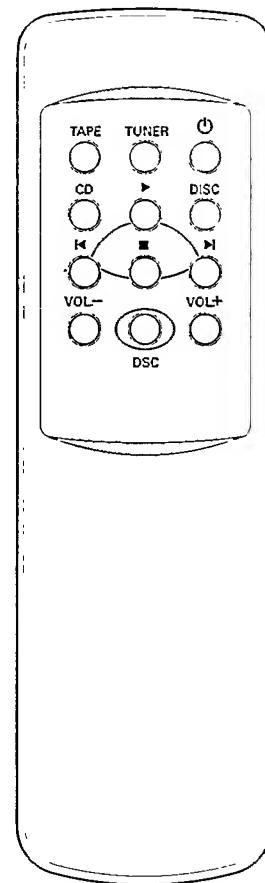
### Remote Control Functions

- First select the source you wish to control by pressing one of the source selection keys on the remote control (e.g. CD, TUNER or TAPE).
- Then select the desired function (PLAY, NEXT, etc.).

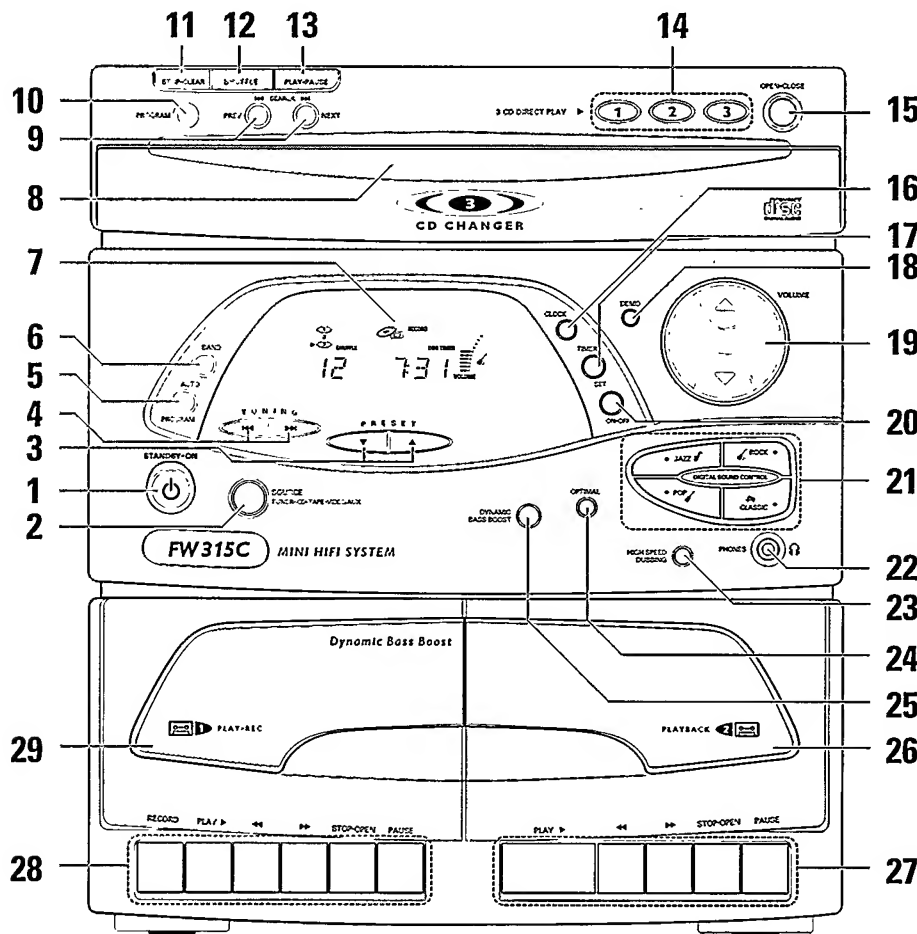
*Note:*

- Whenever a remote control button is pressed, the source icon on the set display will flicker. This indicates the remote control signal is received by the set.

- ⏻** ..... to switch the unit to standby mode.  
**TUNER** ..... to select TUNER mode.  
**TAPE** ..... to select TAPE mode.  
**CD** ..... to select CD mode.  
**▶** ..... to start CD playback.  
**DISC** ..... to select the next disc tray for playback.  
**◀ / ▶** ..... for TUNER ..... to select a lower/higher tuner preset station.  
**■** ..... for CD ..... to select previous/next CD track.  
**■** ..... to stop CD playback.  
**VOL. + / -** ..... to adjust the volume.  
**DSC** ..... to select digital sound control: JAZZ, ROCK, CLASSIC, POP or OPTIMAL.




## Front View



- 1 STANDBY-ON**  
– to switch the set on or to select standby mode.
- 2 SOURCE**  
– to select the following:  
**TUNER** : to switch to Tuner mode.  
**CD** : to switch to CD mode.  
**TAPE** : to switch to Tape mode.  
**VIDEO/AUX** : to switch to VIDEO/AUX mode (for external sources, e.g. TV, Laser Disc or VCR sound).
- 3 PRESET ▲ or ▼**  
– to select a radio station in memory. Also use for clock and timer setting.
- 4 TUNING I◀◀ or ▶▶I**  
– to tune to radio stations:  
**I◀◀** : lower frequencies  
**▶▶I** : higher frequencies  
 Also use for clock and timer setting.
- 5 AUTO PROGRAM**  
– to program preset stations automatically or manually.
- 6 BAND**  
– to select the waveband: FM, MW or LW (*not for all versions*).
- 7 DISPLAY**  
– to display the current setting of the set.
- 8 CD CAROUSEL TRAY**
- 9 PREV / NEXT (I◀◀ SEARCH ▶▶I)**  
– to skip to the beginning of the current or previous/next track or to search backward/forward.
- 10 PROGRAM**  
– to program CD tracks.
- 11 STOP-CLEAR**  
– to stop CD playback or to clear a program.

## CONTROLS

- 12 SHUFFLE**
  - to play all the available discs and their tracks in random order.
- 13 PLAY•PAUSE**
  - to start or interrupt CD playback.
- 14 3 CD DIRECT PLAY ►**
  - to select play for each CD tray.
- 15 OPEN•CLOSE**
  - to open or close the CD carousel tray.
- 16 CLOCK**
  - to set the clock.
- 17 TIMER SET**
  - to set the timer.
- 18 DEMO**
  - to display the various features offered by the system.
- 19 VOLUME**
  - to adjust the volume level.
- 20 TIMER ON•OFF**
  - to switch the timer on or off.
- 21 DIGITAL SOUND CONTROL (DSC)**
  - to select the desired sound effect : JAZZ, ROCK, CLASSIC or POP.
- 22 PHONES** 
  - headphones jack.
- 23 HIGH SPEED DUBBING**
  - to dub from **TAPE DECK 2** to **TAPE DECK 1** at high speed.
- 24 OPTIMAL**
  - to select the sound setting that is tuned to the acoustics of the supplied speakers.
- 25 DYNAMIC BASS BOOST (DBB)**
  - to switch on bass boost to enhance bass response or to switch off bass boost.

- 26 TAPE DECK 2**
- 27 TAPE DECK 2 CASSETTE OPERATION**
  - **PLAY ►** : to start playback.
  - **◀◀** : to rewind the cassette.
  - **▶▶** : to fast forward the cassette.
  - **STOP•OPEN** : to stop playback or to open the cassette compartment.
  - **PAUSE** : to interrupt playback
- 28 TAPE DECK 1 CASSETTE OPERATION**
  - **RECORD** : to start recording.
  - **PLAY ►** : to start playback.
  - **◀◀** : to rewind the cassette.
  - **▶▶** : to fast forward the cassette.
  - **STOP•OPEN** : to stop playback or to open the cassette compartment.
  - **PAUSE** : to interrupt playback or recording.
- 29 TAPE DECK 1**

## OPERATING THE SYSTEM

### Demo mode

The system has a demonstration mode that shows the various features offered by the system. Whenever the system is connected to an AC power source, the demonstration mode will start automatically.

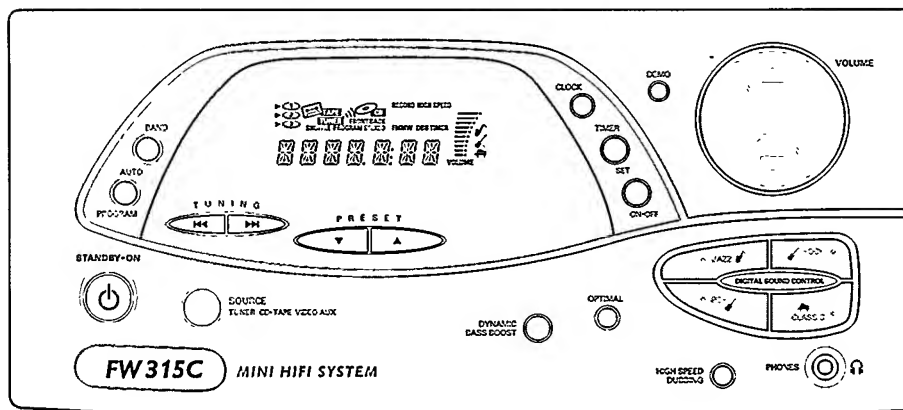
#### To stop demonstration mode

- Press **DEMO, STANDBY - ON, SOURCE, CD OPEN•CLOSE** or **3 CD DIRECT PLAY** button on the system (or **◀, CD, TUNER** or **TAPE** on the remote control) to stop the demonstration.

#### To switch on demonstration mode

- Press **DEMO**.
  - The display will show "WELCOME TO THE AUDIO WORLD," then a demonstration of the various features will follow.





## Important:

Before you begin operating the system, complete the preparation procedures.

## Switching the system ON

- Press **STANDBY-ON** or **SOURCE** (or **CD**, **TUNER** or **TAPE** on the remote control).

## Switching the system to standby mode

- Press **STANDBY-ON** again (or **⏻** on the remote control).

## Selecting the Sound Source

- Press **SOURCE** to select either **TUNER**, **CD**, **TAPE** or **VIDEO/AUX** (or **CD**, **TUNER** or **TAPE** on the remote control).  
→ The display indicates the selected sound source.

You can also select the sound source directly by selecting the respective **PLAY** button or 3 **CD DIRECT PLAY** buttons for **CD** or the **PRESET**, **BAND** or **TUNING** button for **TUNER** mode.

### Note:

For an external sound source, make sure that you have connected the audio left and right output terminals of the external equipment (TV, VCR or Laser Disc player) to the **AUX IN** terminals at the rear of the set.

## Volume Adjustment

Press **VOLUME**  $\wedge$  or  $\vee$  (or **VOL +** or **-** on the remote control) to increase or decrease the sound level.

## For Personal Listening

Connect the headphones to the **PHONES**  $\phi$  socket. The speakers will be muted.

## Digital Sound Control (DSC)

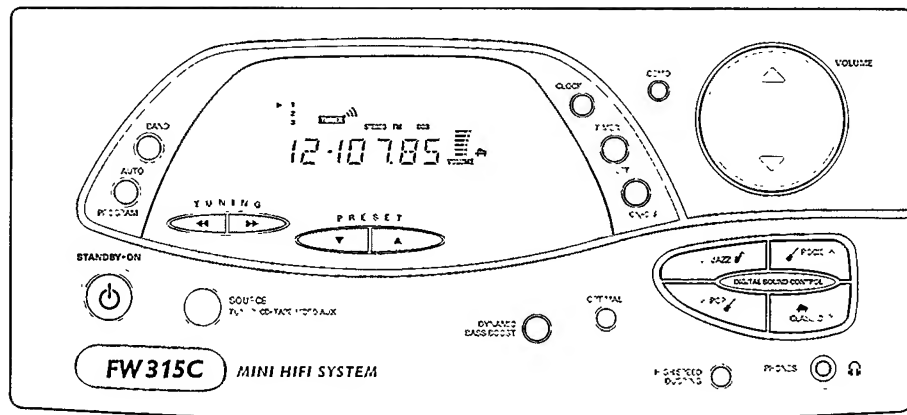
- To enjoy a special sound effect, press **JAZZ** (  $\swarrow$  ), **ROCK** (  $\searrow$  ), **CLASSIC** (  $\rightarrow$  ) or **POP** (  $\nwarrow$  ).
- You can also press **DSC** on the remote control to select the respective sound setting, including **OPTIMAL**.

## Optimal Sound

- Press **OPTIMAL** to hear the sound setting that is tuned to the acoustics of the supplied speakers.

## Dynamic Bass Boost (DBB)

- Press **DBB** to enhance the bass response.  
→ The **DBB** flag lights up.



## Tuning to radio stations

- 1 Press **SOURCE** (or **TUNER** on the remote control) to select TUNER.
  - 2 Press **BAND** to select the desired waveband: FM, MW or LW (not for all versions).
  - 3 Press **TUNING** |◀| or |▶| for more than one second.  
→ The display will show 'SEARCH' until a station with sufficient signal strength is found.
- Repeat this procedure until the desired station is reached.
  - To tune to a weak station, briefly press **TUNING** |◀| or |▶| until the display shows the right frequency and/or when the best reception has been obtained.

## Storing Preset Stations

You can store up to 20 stations in the memory. When a preset station is selected, the preset number appears next to the frequency on the display.

### Automatic programming

- 1 Press **BAND** to select the desired waveband: FM, MW or LW (not for all versions).
- 2 Press **AUTO PROGRAM** for more than one second to start the automatic programming.  
→ PROGRAM flashes and 'AUTO' is displayed.  
→ Every available station will be stored automatically. The frequency and preset number will be displayed briefly.  
→ It will stop searching when all the available stations are stored or when 20 preset stations are stored.

- You can cancel the automatic programming by pressing **AUTO PROGRAM**, **TUNING** |◀| or |▶|, **PRESET** ▼ or ▲, or **BAND**.

### Note:

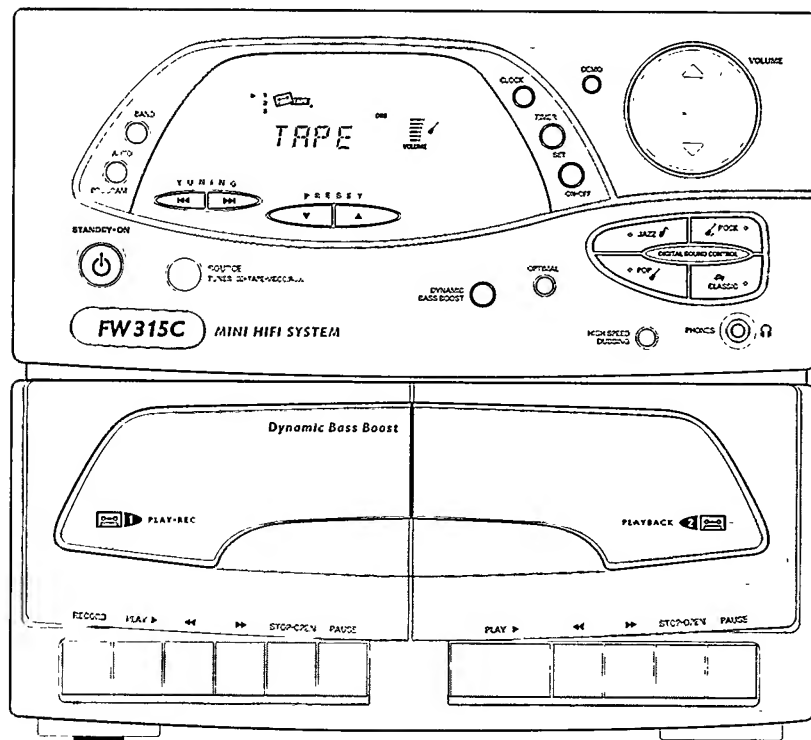
If you want to reserve a section of preset numbers, for example preset numbers 1 - 9, select preset 10 before starting automatic programming. Now only the preset numbers 10 to 20 will be programmed.

## Manual programming

- 1 Press **AUTO PROGRAM** for less than one second  
→ PROGRAM flashes on the display.
  - 2 Press **BAND** to select the desired waveband: FM, MW or LW (not for all versions).
  - 3 Press **TUNING** |◀| or |▶| to tune to the desired frequency.
  - 4 Press **PRESET** ▼ or ▲ to select a preset number.
  - 5 Press **AUTO PROGRAM** again.  
→ PROGRAM disappears, and the station is stored
- Repeat the above procedure to store other preset stations.

## Tuning to Preset Stations

- Press **PRESET** ▼ or ▲ (|◀| or |▶| on the remote control) to select the desired preset number  
→ The preset number, frequency and waveband appear on the display.



### Loading a cassette

- Press **STOP•OPEN**.
- The cassette compartment door opens.
- Load the cassette with the open side downward and the full spool to the left.
- Close the cassette compartment door.

### Tape Playback

- 1 Press **SOURCE** (or **TAPE** on the remote control) to select **TAPE**.
- 2 Load the cassette into the desired **cassette deck**.
- 3 Press **PLAY ▶** to start playback.
- 4 Press **STOP•OPEN** to end playback.

### Fast Forward/Rewinding

- 1 You can rewind or fast forward the cassette by pressing **◀◀** or **▶▶**, respectively.
- 2 Press **STOP•OPEN** to stop fast forwarding or rewinding.

*Note:*

*It is possible to fast forward or rewind a cassette when the set is in another source mode (e.g. **TUNER**, **CD** or **VIDEO/AUX** mode).*

### Continuous playback of two cassettes

- 1 Press **SOURCE** to select **TAPE**.
- 2 Load the cassettes in **tape deck 1** and **tape deck 2**.
- 3 Press **PLAY ▶** on **tape deck 2**.
- 4 Press **PAUSE** on **tape deck 1**.
- 5 Press **PLAY ▶** on **tape deck 1**.  
→ Playback will begin with **tape deck 2** and will continue with **tape deck 1** when **tape deck 2** ends.
- 6 Press **STOP•OPEN** if you want to stop playback before the end of the cassette in **tape deck 1** or **tape deck 2**.

### Recording (TAPE DECK 1)

- 1 Press **SOURCE** to select **TUNER**, **CD** or **VIDEO/AUX**.
- 2 Load a blank cassette into **tape deck 1**.
- 3 Press **RECORD** on **tape deck 1** to start recording.  
→ The **RECORD** flag starts flashing.
- 4 Press **STOP•OPEN** on **tape deck 1** to stop recording.

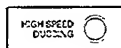
*Note:*

*During recording, it is not possible to listen to another sound source.*

## CASSETTE DECK

### Dubbing cassettes (from TAPE DECK 2 to TAPE DECK 1)

- 1 Load the pre-recorded cassette into **tape deck 2** and a blank cassette into **tape deck 1**.  
→ Make sure that both cassettes have their full spools to the left.
- For high speed recording, press **HIGH SPEED DUBBING**.  
→ **HIGH SPEED** appears on the display.
- 2 Press **PAUSE** on **tape deck 1**.
- 3 Press **RECORD** on **tape deck 1**.  
→ **RECORD** appears on the display.
- 4 Press **PLAY ►** on **tape deck 2**.  
→ Recording will start automatically.
- 5 Press **STOP•OPEN** on **tape deck 1** and **tape deck 2** to stop dubbing.



#### Notes:

- At the end of side A, flip the cassettes to side B and repeat the procedure. The tape deck does not have an auto-reverse function, so you must manually flip the cassette.
- Dubbing of cassettes is only possible in the Tape mode. To ensure good dubbing, use cassettes of the same length.
- During high speed dubbing operation in the Tape mode, the sound is reduced to a low volume.

### General Information

- For recording, use only a cassette of IEC type I (normal cassette).
- The tape in the cassette is secured at both ends with leader tape. At the beginning and end of a cassette, nothing will be recorded for six to seven seconds.
- The recording level is set automatically, regardless of the position of **VOLUME**.
- Check and tighten slack tape with a pencil before use. Slack tape may get jammed or may burst in the mechanism.
- To prevent accidental recording, break out the tab on the left shoulder of the cassette side you want to protect. To re-record the cassette, cover each hole with cellophane tape.

#### Erasure Prevention Tabs



- C-120 tape is extremely thin and may be easily deformed or damaged. It is not recommended for use in this unit.
- Store the cassettes at room temperature and do not put them too close to a magnetic field (for example, transformers, TVs or speakers).

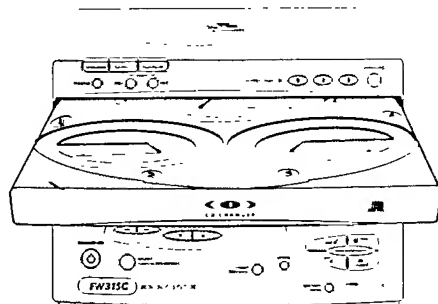
## CD CHANGER

### Warning!

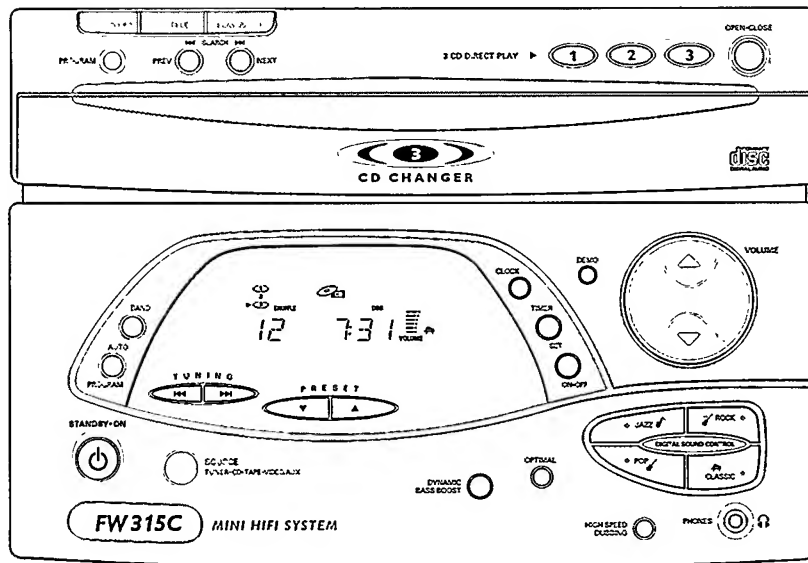
- 1) This set is designed for conventional CDs. Do not use any accessories like disc stabilizer rings or CD treatment sheets, etc, which may damage the CD mechanism.
- 2) Do not load more than one disc into each tray
- 3) When the CD changer is loaded with CD(s), do not turn over or shake the unit as this may jam the changer mechanism.

You can load up to three discs in the CD changer for continuous play without interruption. In addition to the conventional 12-cm disc, 8-cm discs can also be used without an adaptor.

### Loading the CD Changer



- 1 Press **SOURCE** (or **CD** on the remote control) to select CD.
- 2 Press **OPEN•CLOSE**.  
→ The CD compartment slides out.
- 3 Load a disc with the **printed side up** in the right tray.  
• You can load another disc in the left tray.



- To load the third disc, press the corresponding **3 CD DIRECT PLAY** button of the empty tray.
  - The CD changer will rotate until the empty tray is at the right hand side and is ready for loading.
  - Playback will always start with the outer right disc tray.
- 4 Press **OPEN•CLOSE** to close the CD compartment.
  - The total number of tracks and the playing time of the last selected disc will appear on the display.

The following display indications will help you to know whether the disc trays are empty or loaded.

- 1 — indicates disc tray 1 is empty.
- 2 — indicates disc tray 2 is loaded with a disc.
- 3 — indicates disc 3 is the current or selected disc tray.

## Playing a Disc

- 1 Press **PLAY•PAUSE** (or ► on the remote control) to start playback.
  - The disc tray, track number and elapsed playing time of the current track appear on the display.
- To interrupt play, press **PLAY•PAUSE**.
  - The playing time flashes.
- To resume play, press **PLAY•PAUSE** again (or ► on the remote control).
- 2 To stop play, press **STOP•CLEAR** (or ■ on the remote control).

*Note:*

*All the available discs will play once, then stop. When the CD has stopped playing, the set will switch to the standby mode automatically after 15 minutes if no button is pressed.*

When the CD tray is closed, you can play a CD directly by pressing the **3 CD**

**DIRECT PLAY (1 - 3)** buttons on the set (or **DISC** button on the remote control). The CD player will stop at the end of playback of the selected disc.

## Selecting a desired track

**Selecting a desired track when playback is stopped**

- 1 Press **PREV** or **NEXT** (◀ or ▶ on the remote control) until the desired track appears on the display.
- 2 Press **PLAY•PAUSE** (or ► on the remote control) to start playback.
  - The selected track number and elapsed playing time appear on the display.

## CD CHANGER

### Selecting a desired track during playback

- 1 Press **PREV** or **NEXT** (◀ or ▶ on the remote control) until the desired track appears on the display.  
→ The selected track number and elapsed playing time appear on the display.
- If you press **PREV** once it will skip to the beginning of the current track and play the track again.

### Searching for a particular passage during playback

- Press and hold **SEARCH** (◀◀ or ▶▶) until the desired passage is located. During the search, the sound is played at a faster than normal rate and at a reduced volume. Playback returns to normal when **SEARCH** (◀◀ or ▶▶) is released.

### Shuffle

**SHUFFLE** – playing all the available discs and their tracks in random order. It can also be used when tracks are programmed.

#### To shuffle all the discs and tracks

- 1 Press **SHUFFLE**.  
→ "SHUFFLE" flashes briefly on the display.  
→ The **SHUFFLE** flag, the disc and the track selected at random appear on the display.
- The discs and the tracks will now be played in random order until you press **STOP•CLEAR**.
- 2 Press **SHUFFLE** again to resume normal playback.  
→ The **SHUFFLE** flag disappears from the display.

## Programming Tracks

Programming tracks of a loaded CD is possible when CD playback is stopped. The display will indicate the total tracks stored in the program. Up to 40 tracks can be stored in the memory in any order. When 40 tracks are stored and you attempt to store another track, the display will show "PROGRAM FULL."

- 1 Load the desired discs in the disc trays.
- 2 Press **PROGRAM** to start programming.  
→ The **PROGRAM** flag flashes on the display.
- 3 Press the desired disc button to select the disc.
- 4 Press **PREV** or **NEXT** to select the desired track.
- 5 Press **PROGRAM** to store the track.  
• Repeat steps 3 to 5 to store other discs and tracks.
- 6 Press **STOP•CLEAR** once to end programming.  
→ The total number of tracks programmed and total playing time will appear on the display.

#### Playing the program

- 1 Press **PLAY•PAUSE** to start program playback.  
→ The track number and elapsed playing time of the current track will appear on the display.
- 2 Press **STOP•CLEAR** to stop program playback.

#### Note:

*If you press any of the 3 CD DIRECT PLAY buttons, the set will play the selected disc, and the program will be ignored temporarily. The **PROGRAM** flag will also temporarily disappear from the display, then reappear when the playback for the selected disc ends.*

### Reviewing the program

Reviewing of a program is only possible when CD playback is stopped.

- Press **PREV** or **NEXT** repeatedly to review the programmed tracks.

### Erasing the program (when playback is stopped)

- Press **STOP•CLEAR**.  
→ "PROGRAM CLEAR" appears on the display

#### Note:

*The program is also erased when the set is disconnected from the power supply. If the CD carousel is opened, the tracks belonging to the outer two trays will be erased and "CLEAR" will flash on the display once.*

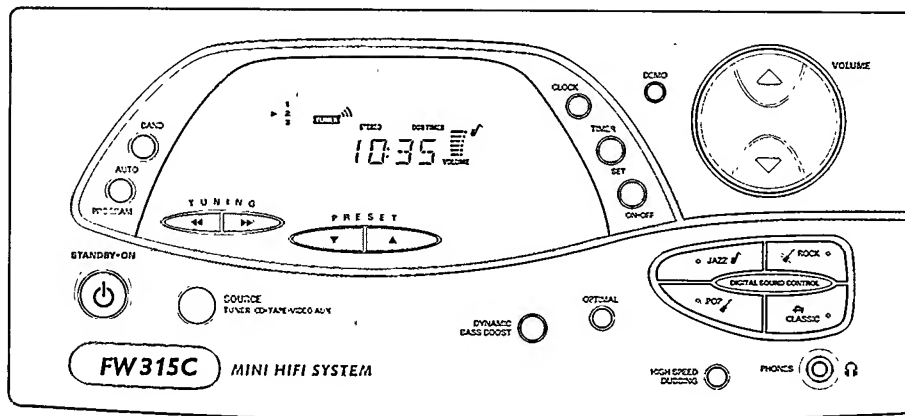
## CD Recording

### During CD recording,

- it is not advisable to fast forward/rewind your cassette in TAPE DECK 2.
- it is not possible to listen to another sound source.

### CD Recording

- 1 Load a blank cassette (full spool to the left) into **tape deck 1**.
- 2 Press **SOURCE** to select CD.
- 3 Load a disc into the disc tray.
- 4 Press **PREV** or **NEXT** to select the desired track.  
If desired, you can program the tracks in the order you want them to be recorded (see Programming Tracks)
- 5 Press **RECORD** on cassette **tape deck 1** to start recording.  
→ The **RECORD** flag flashes on the display.  
→ The CD starts playing.
- 6 Press **STOP•CLEAR** of the CD compartment and **STOP•OPEN** on cassette **tape deck 1** to stop recording.



### Setting the clock

The clock uses the 24 hour system, e.g. **00:00** or **23:59**.

- 1 Press **CLOCK**.  
→ "00:00" starts flashing.
- 2 Set the hour with **PRESET** ▼ or ▲.
- 3 Set the minute with **TUNING** [◀◀ or ▶▶] .
- 4 Press **CLOCK** again to store the setting.  
→ The clock starts running.

#### Note:

- When a power interruption occurs, the clock settings are erased.

### Setting the Timer

- The system can switch on to TUNER or CD mode automatically at a preset time. It can serve as an alarm to wake you up. After half an hour from the preset time, the system will return to the standby mode.
- Before setting the timer, make sure the clock is set correctly.
- The timer works only once for each setting.
- **The volume of the timer will be at the last setting before the set is switched to standby mode.**

#### Timer Setting

- 1 Press **TIMER SET**.  
→ The **TIMER** flag flashes.
- 2 Press **PRESET** ▲ to select the desired sound source.  
→ The display will switch as follows:  
TUNER → CD → TUNER ...

- 3 Press **TIMER SET** to confirm your selection.  
→ The display will show "ON 00:00" and "00:00" flashes.
- 4 Press **PRESET** ▼ or ▲ to set the hour for the timer to start.
- 5 Press **TUNING** [◀◀ or ▶▶] to set the minutes for the timer to start.
- 6 Press **TIMER SET** to store the start time.  
→ The **TIMER** is now set.  
→ The **TIMER** flag remains lit.

#### To stop the **TIMER**

- Press **TIMER ON•OFF** on the set.  
→ The **TIMER** is now off.

#### To start the **TIMER** again

- Press **TIMER ON•OFF** on the set.  
→ The display will show the last set start time of the **TIMER** and its flag.  
→ The **TIMER** flag remains lit.

#### Notes:

1. If the source selected is **TUNER**, the last tuned frequency will be switched on.
2. If the source selected is **CD**, playback will begin with the first track of the last selected disc. If the **CD** trays are empty, the **TUNER** source will be selected instead.

## MAINTENANCE

### Maintenance

#### Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

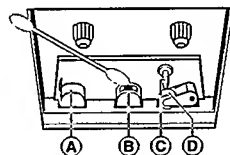
#### Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static spray intended for analog records.



#### Cleaning the Heads and the Tape Paths

- To ensure good recording and playback quality, clean the heads (A) and (B), the capstan (C), and pressure roller (D) after every 50 hours of tape operation.



- Use a cotton swab slightly moistened with cleaning fluid or alcohol.

#### Demagnetizing the heads

- Use a demagnetizing cassette available at your dealer.

## SPECIFICATIONS

### Specifications

#### AMPLIFIER

Standby power .....	9 W
Output power .....	2 x 5 W RMS
.....	2 x 10 W MPO
Power band width .....	63 - 15000 Hz
Frequency response .....	63 - 15000 Hz
Signal-to-noise ratio .....	≥ 75 dBA
Stereo separation .....	≥ 52 dB (1 kHz)
Input sensitivity	
Auxiliary .....	350 mV
Outputs	
Speakers .....	≥ 3 Ω
Headphones .....	32 Ω - 1000 Ω

#### TUNER

FM wave range .....	87.5 - 108 MHz
MW wave range	
9 kHz Grid .....	531 - 1602 kHz
LW wave range (not for all versions) .....	153 - 279 kHz
Sensitivity at 75 Ω, 26 dB S/N ratio,	
FM mono .....	4.35 μV
46 dB signal-to-noise ratio, FM Stereo .....	154 μV
FM Frequency response .....	63 - 12500 Hz (±3 dB)
Signal-to-noise ratio .....	≥ 50 dBA
Total Harmonic Distortion .....	< 3%

#### CD PLAYER

Frequency range .....	20 - 20000 Hz (±3 dB)
Signal-to-noise .....	≥ 85 dBA
Channel separation .....	≥ 40 dB
Total harmonic distortion .....	≤ 65 dB

#### CASSETTE DECK

Frequency range	
Normal tape (type I) .....	80 - 12500 Hz (±5 dB)
Signal-to-noise ratio	
Normal tape (type I) .....	≥ 48 dBA
Wow and flutter .....	≤ 0.4% DIN

#### MAIN UNIT

Material/finish .....	Metal and polystyrene
Dimensions (w x h x d) .....	265 x 310 x 307 (mm)
Weight .....	6 kg approx

#### SPEAKER BOX

Dimensions (w x h x d) .....	180 x 310 x 160 (mm)
Weight .....	1.5 kg approx
Speaker driver .....	4 inches full range

#### Subject to modification



**Warning!** Under no circumstances should you try to repair the set yourself, as this will invalidate the warranty.

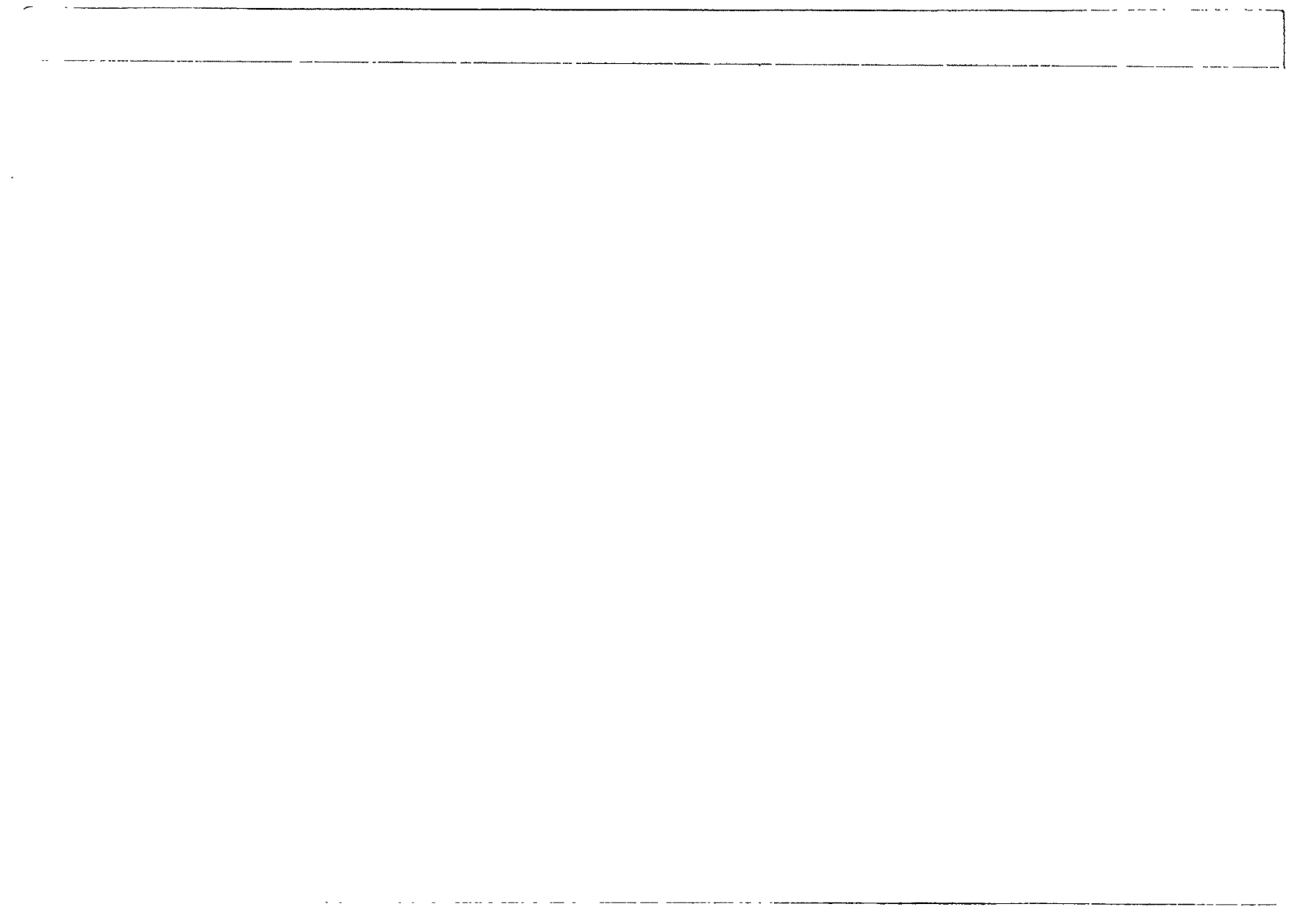
- If a fault occurs, check the points listed below before taking the set in for repair.
- Should any problems persist after you have made these checks, consult your nearest dealer or service center.

SYMPTOM	POSSIBLE CAUSE	REMEDY
<b>RADIO RECEPTION</b>		
The STEREO indicator flashes.	The signal is too weak.	Adjust the antenna.
Severe hum or noise.	The signal strength is too weak.	Adjust the antenna.
	The TV or VCR is too close to the stereo system.	Separate the stereo system from the TV or VCR.
		Connect an external antenna for better reception.
<b>CASSETTE DECK OPERATION</b>		
Recording is not possible.	No cassette in the cassette deck.	Insert a blank cassette into the cassette deck.
	The protection tab has been broken.	Put a piece of clear adhesive tape over the opening.
Recording or playback cannot be made or there is a decrease in audio level.	Dirty tape heads.	See section on cassette deck maintenance.
	Magnetic build-up in the record/playback head.	Use demagnetizing cassette.
Excessive wow or flutter, or sound drop-out.	Contamination of the capstans or pressure rollers.	See section on cassette deck maintenance.
<b>CD PLAYER OPERATION</b>		
"NO DISC" is displayed.	The disc is inserted upside down.	Place CD with printed side up.
	Moisture condensation.	Wait until lens has adjusted to normal room temperature.
	There is no disc in the CD tray.	Insert a CD.
	The CD is dirty, badly scratched or warped.	Replace or clean the CD.

## TROUBLESHOOTING GUIDE

## GENERAL

Set not working.	Set does not react when buttons are pressed.	Press <b>STANDBY-ON</b> to switch the unit off, then switch it on again. Or, unplug the AC power plug from the wall outlet, then plug it in again.
No or poor sound.	Volume is not turned up.	Adjust <b>VOLUME</b> .
	The headphones are connected.	Disconnect the headphones.
	Speakers are not connected or are connected wrongly.	Check that the speakers are connected correctly. Make sure that the stripped speaker wire is clamped.
Reversed left and right sound.	Speakers are connected wrongly.	Check the speaker connections and speaker location.
Lack of bass sound or apparently imprecise physical location of musical instruments.	Speakers are connected wrongly.	Check the speaker connection for proper phasing, red/black wires to red/black terminals.
Clock blinking.	There was a power disruption.	Reset the clock.
Remote control has no effect on the set.	The distance to the system is too large.	Reduce the distance.
	Batteries are inserted incorrectly.	Insert the batteries correctly.
	Batteries are exhausted.	Replace the batteries.
	Wrong sound source is selected.	Select the sound source before pressing the function button ( <b>PLAY</b> , <b>PREV./NEXT</b> , etc.).
Timer not working.	Timer not on.	Press <b>TIMER ON•OFF</b> on the set to switch on the timer.
	Dubbing/recording is active.	Stop dubbing/recording.
"PRESS DEMO TO EXIT" is displayed.	Demo mode is switched on.	Press <b>STANDBY-ON</b> or <b>DEMO</b> to switch off the demo.



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